

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having ~~race~~ with an outer diameter of 65 mm or less and a ~~double~~ ~~rows~~ ~~of~~ ~~outer~~ ~~raceways~~ formed on ~~an~~ ~~around~~ ~~its~~ ~~inner~~ ~~circumferential~~ ~~surface~~ thereof;

an inner ring having ~~race~~ ~~that has~~ ~~double~~ ~~rows~~ ~~of~~ ~~inner~~ ~~raceways~~ formed on ~~an~~ ~~around~~ ~~its~~ ~~outer~~ ~~circumferential~~ ~~surface~~ thereof;

a plurality of balls each with ~~a~~ ~~diameter~~ of 4 mm or less in ~~diameter~~, and each retained by a retainer ~~that are~~ located between each ~~of~~ the outer ~~raceways~~ and inner ~~raceways~~ such that they roll freely; and

~~a~~ ~~retainer~~ ~~that holds~~ ~~the~~ ~~balls~~ ~~such~~ ~~that~~ ~~they~~ ~~roll~~ ~~freely~~;

~~and~~ seal rings that seal the openings on both ends of ~~an~~ ~~the~~ internal space between the inner circumferential surface of the outer ring and the outer circumferential

surface of the inner ring where the plurality of balls are disposed ~~located~~;

and wherein an axial width of the bearing does not exceed ~~in the axial direction is 45% or less than that of~~ the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein a portion near an inner circumference of each ~~the respective seal rings near an inner circumference thereof and a corresponding axial~~ ~~both end surfaces in the axial direction~~ of the inner ring overlap when viewed from the axial direction, so that a width in at the radial direction of an overlap section is at least 25% of ~~more than a diameter of one of the plurality of~~ ~~the respective~~ ~~balls;~~

and wherein each seal ring includes ~~of~~ a plurality of protrusions ~~that are formed all around a circumference~~ ~~circumferentially~~ on an inside surface at a portion near an inner circumference of the seal ring such ~~that respective seal rings~~, a tip edge of at least one of the plurality of protrusions comes in sliding contact with the corresponding axial end surfaces ~~in the axial direction~~ of the inner ring.

2. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having ~~race~~ with an outer diameter of 65 mm or less and a ~~double~~ ~~rows~~ of ~~outer~~ raceways formed on ~~an~~ ~~around~~ ~~its~~ inner circumferential surface thereof;

an inner ring having ~~race~~ that has double rows of ~~inner~~ raceways formed on ~~an~~ ~~around~~ ~~its~~ outer circumferential surface thereof;

a plurality of balls each with a diameter of 4 mm or less in diameter, and each retained by a retainer ~~that~~ are located between each of the outer ~~raceways~~ and inner raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll freely,~~

~~and seal rings that seal the openings on both ends of~~ an ~~the~~ internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are disposed ~~located~~;

~~and wherein an axial width of the bearing does not exceed~~ in ~~the~~ axial ~~direction~~ is 45% ~~or less than that of~~ an ~~the~~ inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer

ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein a portion near an inner circumference of ~~each~~ the respective seal rings near an inner circumference thereof and a corresponding axial ~~both~~ end surfaces in the axial direction of the inner ring overlap when viewed from the axial direction, so that a width in at the radial direction of an overlap section is at least 25% of ~~or more~~ than a diameter of one of the plurality of ~~the~~ respective balls;

and wherein each seal ring includes ~~of~~ one or more protrusions that are formed all around a circumference ~~circumferentially~~ on an inside side surface at a portion near an inner circumference such that ~~of the~~ the respective seal rings, a tip edge of at least one of the protrusions comes in sliding contact with a part of the surface of the inner ring all the way around the circumference ~~with a part of the surface of the inner ring~~;

and wherein each seal ring includes ~~the other~~ portions not in sliding contact with the inner ring near the inner circumference of the respective seal rings, said portions ~~disposed~~ ~~that are not the~~ protrusions ~~being in sliding~~ contact, comes close to and facing a portion ~~faces the other~~

part of the surface of the inner ring not in sliding contact with the protrusions, so that labyrinth seals are formed.

3. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having ~~race~~ with an outer diameter of 65 mm or less and a ~~double rows of outer~~ raceways formed on ~~an~~ around its inner circumferential surface thereof;

an inner ring having ~~race~~ that has double rows of ~~inner~~ raceways formed on ~~an~~ around its outer circumferential surface thereof;

a plurality of balls each with a diameter of 4 mm or less in diameter, and each retained by a retainer ~~that are located between each of the outer raceways and inner raceways such that they roll freely; and~~

~~a retainer that holds the balls such that they roll freely;~~

~~and seal rings that seal the openings on both ends of the internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are disposed located;~~

~~and wherein an axial width of the bearing does not exceed in the axial direction is 45% or less than that of~~

anthe inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein each ~~the~~ seal rings comprises an elastic material having a Shore hardness of 60 to 80 and reinforced by a metal core, and the width in athe radial direction of a deformed section of the elastic material that protrudes inward in the radial direction from anthe inner edge of the metal core is 40% or more than the diameter of one of the plurality of~~the~~ respective balls, and athe thickness of athe thinnest area of this~~the~~ deformed section, which is located in athe middle in the radial direction of this~~the~~ deformed section, is 0.4 mm or more.

4. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having~~race~~ with an outer diameter of 65 mm or less and a double rows ~~of outer~~ raceways formed on an~~around~~ its inner circumferential surface thereof;

an inner ring having~~race~~ that has double rows ~~of~~ inner raceways formed on an~~around~~ its outer circumferential surface thereof;

a plurality of balls each with a diameter of 4 mm or less in diameter, and each retained by a retainer that are located between each of the outer raceways and inner raceways such that they roll freely; and

a retainer that holds the balls such that they roll freely;

and seal rings that seal the openings on both ends of an the internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are disposed located;

and wherein an axial width of the bearing does not exceed in the axial direction is 45% or less than that of an the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein each the seal rings comprises an elastic material that is reinforced by a metal core, and an inner diameter of this the metal core is less than an outer diameter of the inner ring.

5. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having ~~race~~ with an outer diameter of 65 mm or less and a double rows of outer raceways formed on an around its inner circumferential surface thereof;

an inner ring having ~~race~~ that has double rows of inner raceways formed on an around its outer circumferential surface thereof;

a plurality of balls each with a diameter of 4 mm or less in diameter, and each retained by a retainer that are located between each of the outer ~~raceways~~ and inner raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll freely;~~

~~and seal rings that seal the openings on both ends of~~ an the internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are disposed located;

~~and wherein an axial width of the bearing does not exceed in the axial direction is 45% or less than that of~~ an the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein each the seal rings comprises an elastic material ~~that is~~ reinforced by a metal core, and a position in an the axial direction of at the center of gravity of at the deformed section of the elastic material that protrudes inward in at the radial direction from an the inner edge of the metal core is located more adjacent to at the side where the tip edge of the seal ring and part of the surface of the inner ring come into ~~of~~ the sliding contact, ~~between the tip edge of the seal ring and part of the surface of the inner ring than the position of the center of deformation of the~~ this deformed section.